

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,278	11/03/2003	David J. Carini	PH-7426 NP	4516
23914 LOUIS J. WILI	7590 05/25/200 LE	7	EXAMINER .	
BRISTOL-MYERS SQUIBB COMPANY			BALASUBRAMANIAN, VENKATARAMAN	
	PATENT DEPARTMENT P O BOX 4000			PAPER NUMBER
PRINCETON, NJ 08543-4000			1624	
				V
			MAIL DATE	DELIVERY MODE
			05/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Augliostion No.	Applicant/a)			
• v	Application No.	Applicant(s)			
Office Action Summary	10/700,278	CARINI, DAVID J.			
omoc Acaon Cammary	Examiner	Art Unit			
The MAIL INC DATE of this communication and	Venkataraman Balasubramanian	1624			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 14 Ma     2a)⊠ This action is <b>FINAL</b> . 2b)□ This     3)□ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ⊠ Claim(s) 1-11 and 13-16 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-11 and 13-16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Po 6) Other:	te			

Art Unit: 1624

## **DETAILED ACTION**

Applicants' response, which included cancellation of claim 12, filed on 2/14/2007, is made of record. Claims 1-11 and 13-16 are now pending. In view of applicants' response rejection of claim 12 made in the previous office action has been rendered moot. However, the following 103 rejection made in the previous office action is maintained.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Art Unit: 1624

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-11 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Getman et al., US 6,143,788 for reasons of record. To repeat:

Getman et al. teaches several bisaminoacid hydroxyethylaminosufonamides compounds as retroviral protease inhibitors for treating HIV infection, which include instant compounds. See column2, formula 1 and note the definition of various variable groups R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup>. Especially note when R<sup>12</sup> is H, R<sup>13</sup> is araalkyl or heteroarylalkyl, compounds taught by Getman et al. includes instant compounds. Also note the R<sup>12</sup> and R<sup>13</sup> choices include isoprpopyl and various araalkyl and heteroarylalkyl as shown in column 6. See column 6 through102 for various preferred embodiments, schemes for making and examples of compounds made. See also Table 2-16 shown in column 102-286. Especially see Table 3B, 3D, 3F, 3H, 4B, 4D, 4F, 4H, 5B, 5D, 5F, 5H, 6B, 6D, 6F, 6H, 7B, 7D, 7F and 7H for various aralkyl and heteroarylalkyl compounds as required by the instant claims.

Instant claims require a two methyl groups on the carbon attached to R<sup>1</sup>. Getman et al. differs from the instant claims in exemplifying such compounds.

However, Getman et al. teaches equivalency of those compounds taught in the Tables 2-16(column 102-286) with those generically recited in pages 2-6.

Thus it would have been obvious to one having ordinary skill in the art at the time of the invention was made to make compounds using the teachings of Getman et al.,

Art Unit: 1624

including the carbon bearing the aryl groups or heteroaryl groups to have two methyl groups as required by the instant claims and expect resulting compounds to possess the uses taught by the art in view of the equivalency teaching outline above.

This rejection is same as made in the previous office action but now excludes cancelled claim 12. Applicants' argument to overcome this rejection is not persuasive. As noted above, Getman et al., teaches in Table 3B, 3D, 3F, 3H, 4B, 4D, 4F, 4H, 5B, 5D, 5F, 5H, 6B, 6D, 6F, 6H, 7B, 7D, 7F and 7H for various aralkyl and heteroarylalkyl compounds as required by the instant claims. These compound differ only in not have a gem dialkyl groups on the alkyl of araalkyl and heteroarylalkyl. Given the teachings of large number of compounds and the generic teaching of such groups, it would be obvious to one trained in the art to modify these groups and arrive at gem dialkyl groups on the araalkyl and heteroarylalkyl.

Hence, this rejection is proper and is maintained.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 1624

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication from the examiner should be

Page 5

addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571)

272-0662. The examiner can normally be reached on Monday through Thursday from

8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is

James O. Wilson, whose telephone number is 571-272-0661. The fax phone number for

the organization where this application or proceeding is assigned (571) 273-8300. Any

inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAG. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-2 17-9197 (toll-free).

Venkalarama Bulasuhannaay Venkataraman Balasubramanian

5/23/2007